

United States of America
Department of Transportation -- Federal Aviation Administration
Supplemental Type Certificate

Number SA4428SW

This certificate issued to:

Air Planes Services Corporation
P.O. Box 541, Wellington Airport
Wellington, KS 67152

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 3 of the Civil Air Regulations.

Original Product - Type Certificate Number: 3A12
Make: Cessna
Model: 172B, 172C, 172D, 172E, 172F, 172G, 172H,
172I, 172K, 172L, 172M, 172N, 172P, 172R

Description of Type Design Change: (See continuation sheet)

Installation of 180 Horsepower Lycoming engine and propeller combination, defined in Table 1 of the continuation sheet, in accordance with:

- (For 172B through 172H Models) Installation Instructions 172034, Revision 4 dated June 30, 2000, Drawing List 1727600, Revision 18, dated June 30, 2000;
- (For 172I through 172P Models): Installation Instruction 172031, Revision 6, dated December 16, 1996, Drawing List 1727600, Revision 18, dated June 30, 2000; or
- (For 172R Model): Installation Instructions 1720971, Revision original dated January 14, 1998 and Parts List 172032, Revision 3, dated June 30, 2000 or later "FAA Approved" Revisions.

Limitations and Conditions: (See continuation sheet)

Compatibility of this design change with previously approved modifications must be determined by the installer. Cessna 172I must be placarded: "Flight with a pilot only requires 10 pounds of ballast at Station 95 (baggage compartment)." Sensenich 76EM8S propeller limited to solid crankshaft Lycoming O-360-A4 series engines only. Cessna Model 172R limited to IO-360-L2A engine only and includes compliance with FAR 23.1093 (a) (5) and 23.1107 (a) & (b). If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission. See Table 2 of the continuation sheet for required flight manual supplements/supplemental flight manuals.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: March 18, 1976

Date reissued: Jun 26, 1984, Aug 27, 1985, Nov 10, 1987

Date of issuance: July 24, 1981

Date amended: Sep 17, 1987, Mar 21, 1990, Mar 31, 1994, Mar 9, 1995, Jan 7, 1997, Feb 10, 1998, Jul 6, 2000, Dec 2, 2011



By direction of the Administrator

Original signed by Steve Litke

(Signature)

Steven C. Litke
Program Manager

Wichita Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

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Supplemental Type Certificate
 (Continuation Sheet)

Number SA4428SW

Date of Issuance: March 18, 1976
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Date Amended: Sep 17, 1987, Mar 21, 1990, Mar 31, 1994, Mar 9, 1995,
 Jan 7, 1997, Feb 10, 1998, Jul 6, 2000, Dec 2, 2011

Description of Type Design Change: (Continued):

Table 1: Propellers and Engine Models Approved on Cessna 172 Models:

Engine Model	Sensenich 76M8S14-0-60 [#]	Sensenich 76EM8S14-0-60 [#]	McCauley 1A70/CFA-7660 ^{##}	McCauley 1A70/JFA-7660 ^{##}	McCauley 1A70/JFA-7658 ^{##}
0-360-A4A	Cessna 172 Models: B, C, D, E, F, G, H, I, K, L, M, N, P	Cessna 172 Models: B, C, D, E, F, G, H, I, K, L, M, N, P	Cessna 172 Models: D, E, F, G, H, I, K, L, M, N, P	Cessna 172 Models: D, E, F, G, H, I, K, L, M, N, P	Cessna 172 Models: D, E, F, G, H, I, K, L, M, N, P
0-360-A4M	Cessna 172 Models: B, C, D, E, F, G, H, I, K, L, M, N, P	Cessna 172 Models: B, C, D, E, F, G, H, I, K, L, M, N, P	Cessna 172 Models: D, E, F, G, H, I, K, L, M, N, P	Cessna 172 Models: D, E, F, G, H, I, K, L, M, N, P	Cessna 172 Models: D, E, F, G, H, I, K, L, M, N, P
0-360-A4N	Cessna 172 Models: B, C, D, E, F, G, H, I, K, L, M, N, P	Cessna 172 Models: B, C, D, E, F, G, H, I, K, L, M, N, P	Cessna 172 Models: D, E, F, G, H, I, K, L, M, N, P	Cessna 172 Models: D, E, F, G, H, I, K, L, M, N, P	Cessna 172 Models: D, E, F, G, H, I, K, L, M, N, P
O-360-A3A	-	-	Cessna 172 Models: D, E, F, G, H, I, K, L, M, N, P	Cessna 172 Models: D, E, F, G, H, I, K, L, M, N, P	Cessna 172 Models: D, E, F, G, H, I, K, L, M, N, P
O-360-A2F	-	-	Cessna 172 Models: D, E, F, G, H, I, K, L, M, N, P	Cessna 172 Models: D, E, F, G, H, I, K, L, M, N, P	Cessna 172 Models: D, E, F, G, H, I, K, L, M, N, P
IO-360-L2A	-	-	Cessna 172 Model: R	Cessna 172 Model: R	Cessna 172 Model: R

Note:

[#] All Sensenich Pitch Range: 56-62
^{##} All McCauley Pitch Range: 56-60

Limitations and Conditions: (Continued):

Table 1: Propellers and Engine Models Approved on Cessna 172 Models:

Cessna 172 Model(s)	Title	Serial Number Range	Original Approval	Document Number
B, C, D, E, F, G, H, I, K, L, M, N	Owners Handbook Supplement (non-FAA Approved)/Airplane Flight Manual Supplement**	17247747 to 17271034	12/23/1996**	172041
N, P	FAA Approved Airplane Flight Manual Supplement	17271035 to 17276673	8/27/1985*	172042
R	FAA Approved Airplane Flight Manual Supplement	17280001 and ON	2/10/1998	172058

Note:

*All revisions dated after December 2, 2011 have document numbers. Previous revisions may not have had document numbers.
 **Prior to December 2, 2011, this document was titled Owners Handbook Supplement (non-FAA Approved). After this date, the document was changed to a Supplemental Aircraft Flight Manual that is FAA approved.

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